

FIG.1

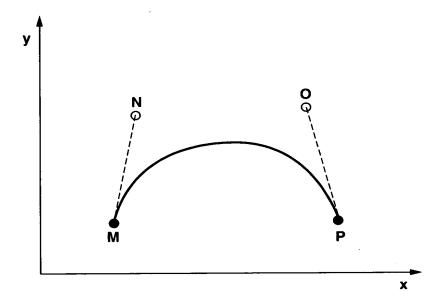


FIG.2

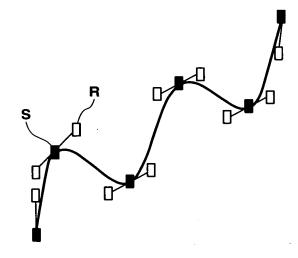


FIG.3

* .;

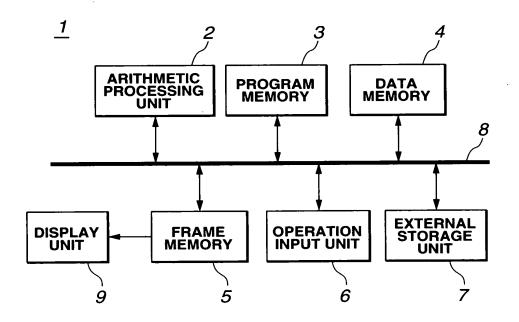


FIG.4

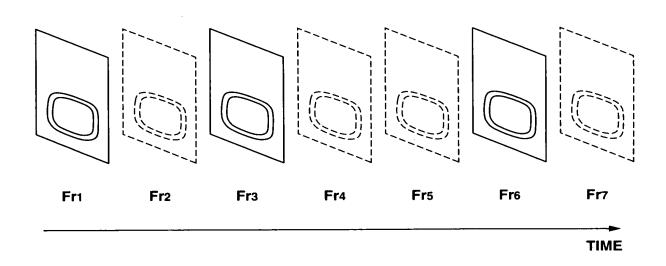


FIG.5

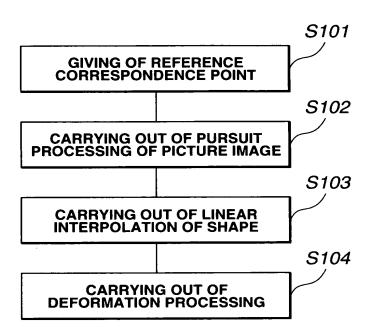


FIG.6

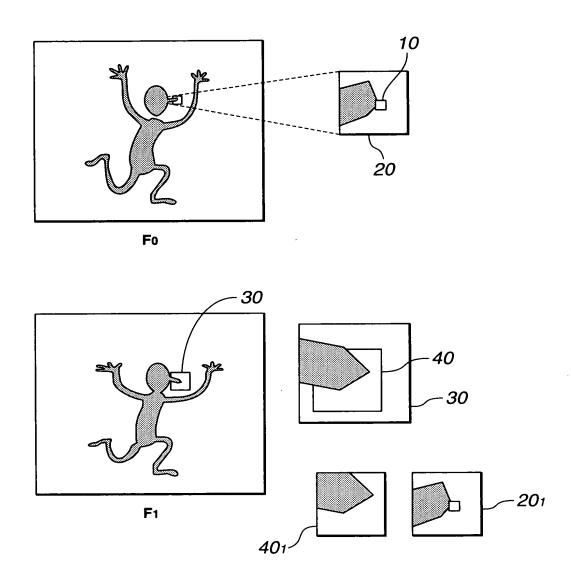


FIG.7



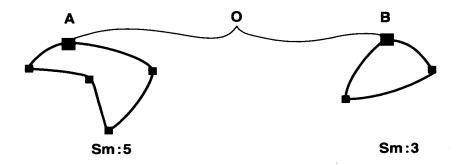


FIG.8

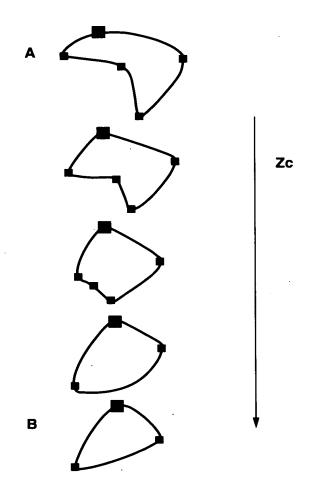


FIG.9

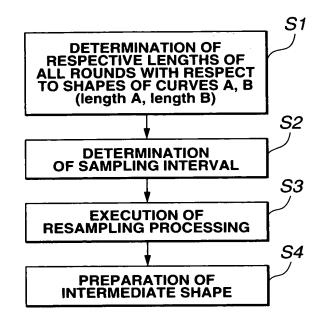


FIG.10

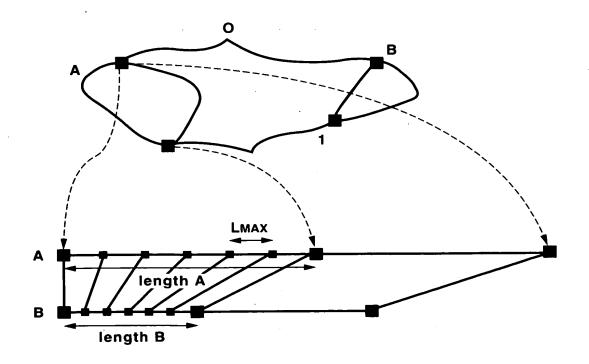


FIG.11

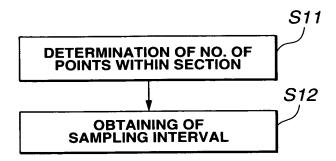


FIG.12

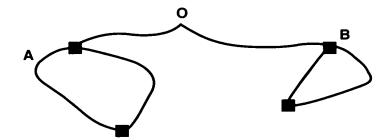


FIG.13

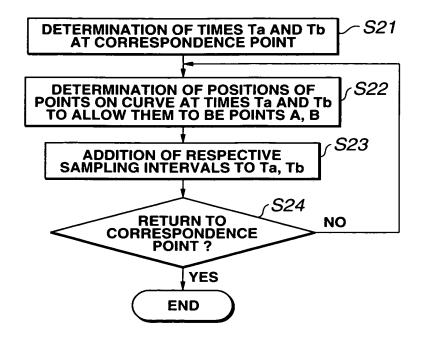


FIG.14

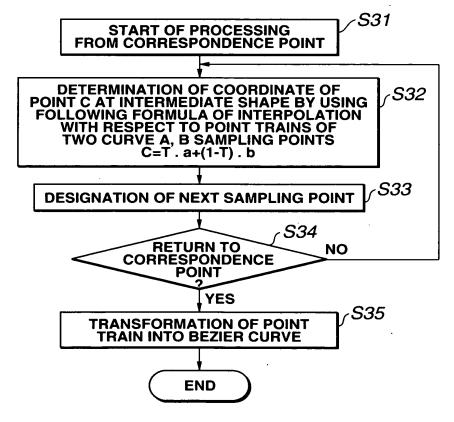


FIG.15

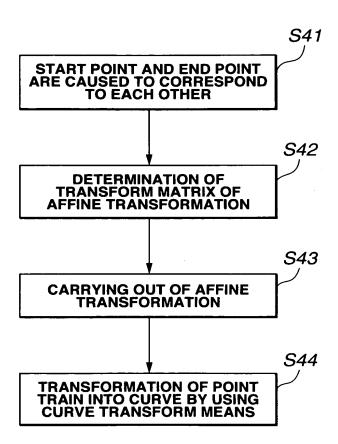
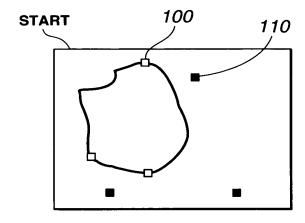
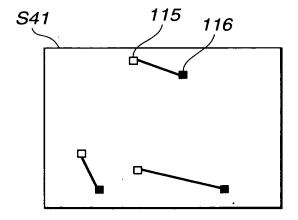


FIG.16

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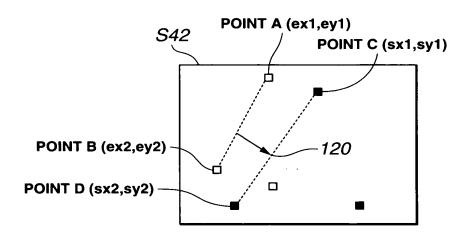
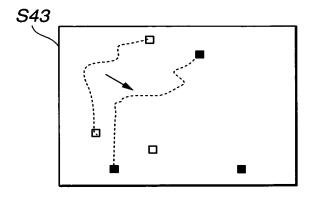
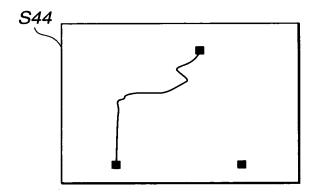


FIG.17





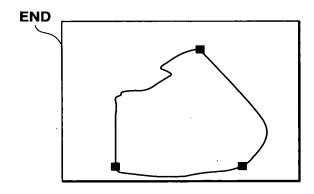


FIG.18

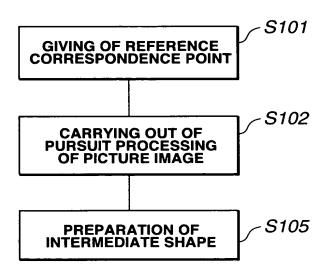


FIG.19

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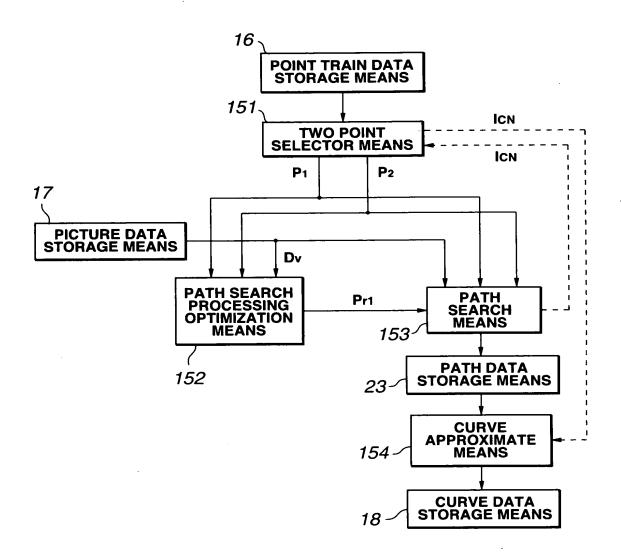


FIG.20

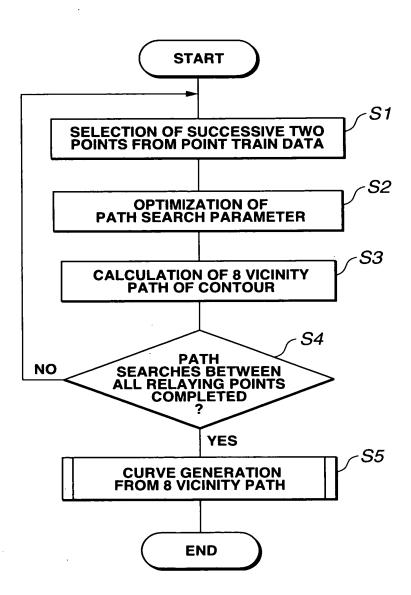


FIG.21

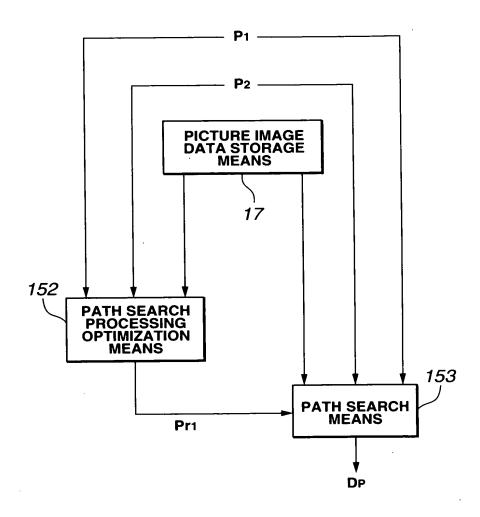


FIG.22

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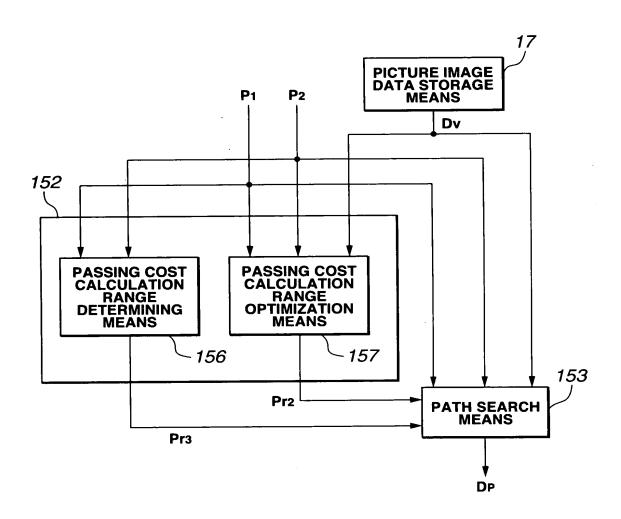


FIG.23

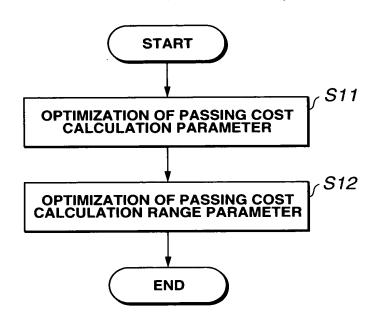


FIG.24

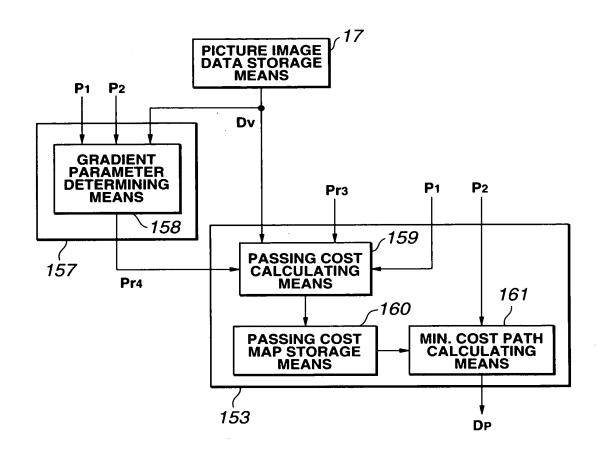


FIG.25

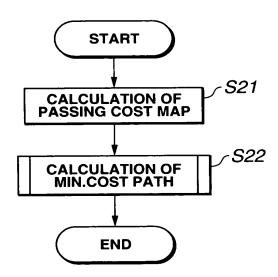


FIG.26

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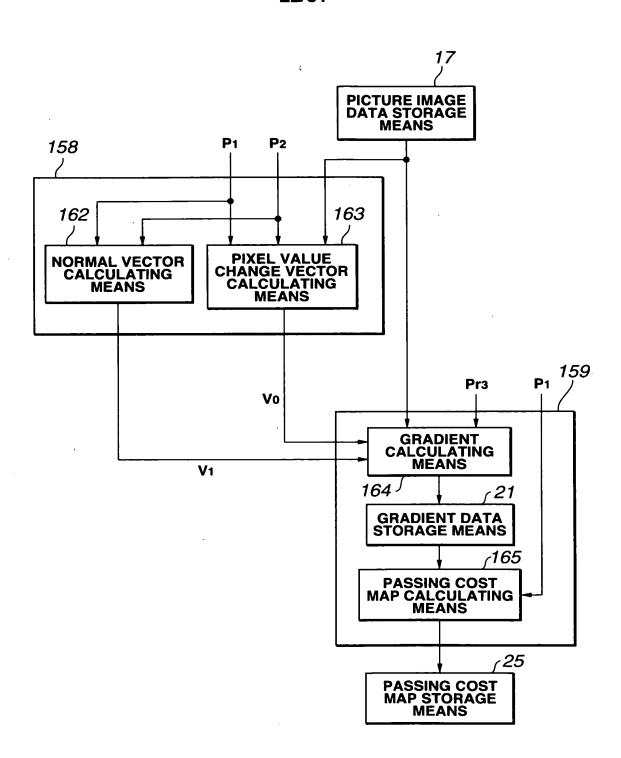


FIG.27

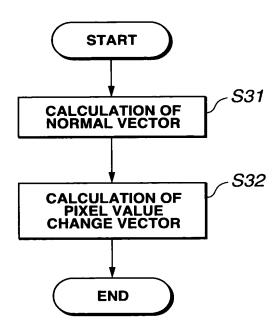
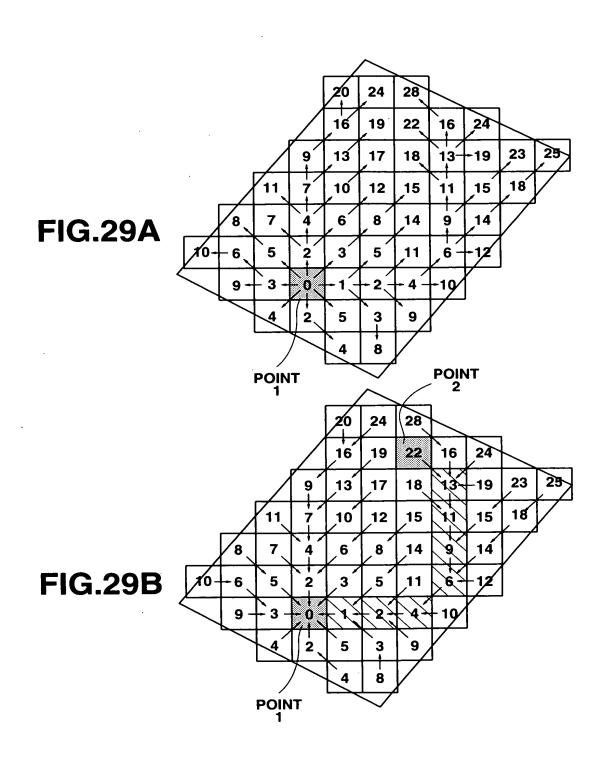


FIG.28



end

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The Live-Wire 2-D dynamic programming (DP) graph search algorithm is as follows:

```
Algorithm: Live-Wire 2-D DP graph search.
Input:
             {Start(or seed) pixel.}
 S
             {Local cost function for link between pixels q and r.}
 I(q,r)
Data Structures:
             {List of active pixels sorted by total cost (initially empty).}
             {Neighborhood set of q (contains 8 neighbors of pixel).}
 N(q)
             {Boolean function indicating if q has been expanded/processed.}
 e(q)
             {Total cost function from seed point to q.}
 g(q)
Output:
             {Pointers from each pixel indicating the minimum cost path.}
 p
Algorithm:
                                    {Initialize active list with zero cost seed pixel.}
g(s)=0; L=s;
while L!=NULL do begin
                                    {While still points to expand:}
                                    {Remove minimum cost pixel q from active list.}
  q=min(L)
                                    {Mark q as expanded(i.e.,processed).}
  e(q)=TRUE;
  for each r∈N(q) such that not e(r) do begin
                                    {Compute total cost to neighbor.}
    gtmp=g(q)+I(q,r);
                                    {Remove higher cost neighbor's}
    if r \in L and gtmp < g(r) then
                                    { from list}
      r=L:
                                    {If neighbor not on list,}
    if !(r∈L) then begin
                                    { assign neighbor's total cost,}
      g(r)=gtmp;
                                    { set (or reset) back pointer,}
      p(r)=q;
                                    { and place on (or return to)}
      L=r;
                                    { active list.}
    end
   end
```

FIG.30

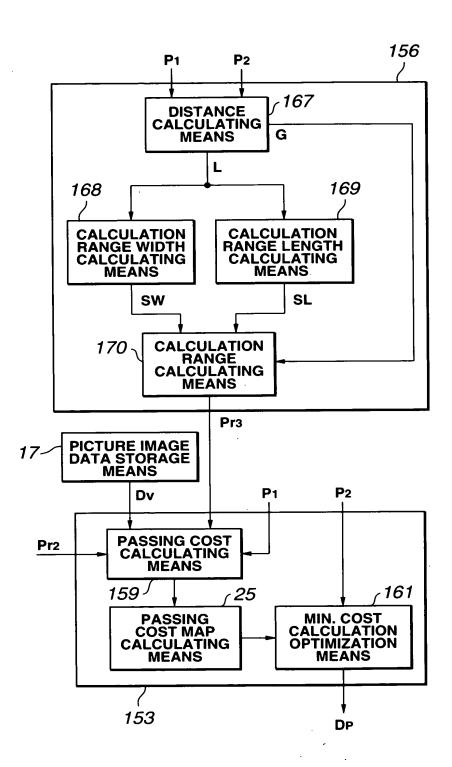


FIG.31

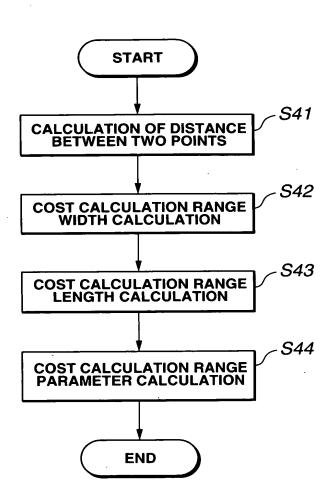


FIG.32



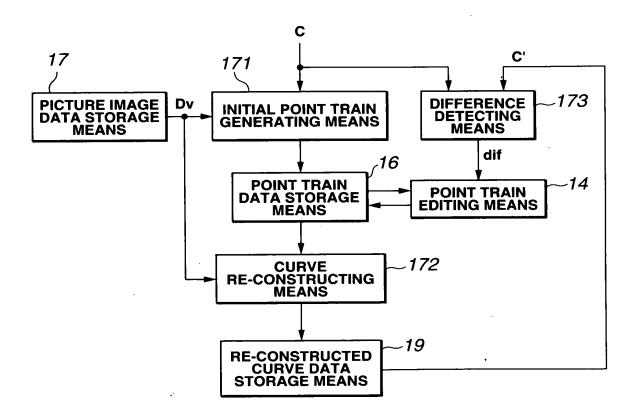


FIG.33

422 Redu #0:446 1 2 Uni 1856 18/92

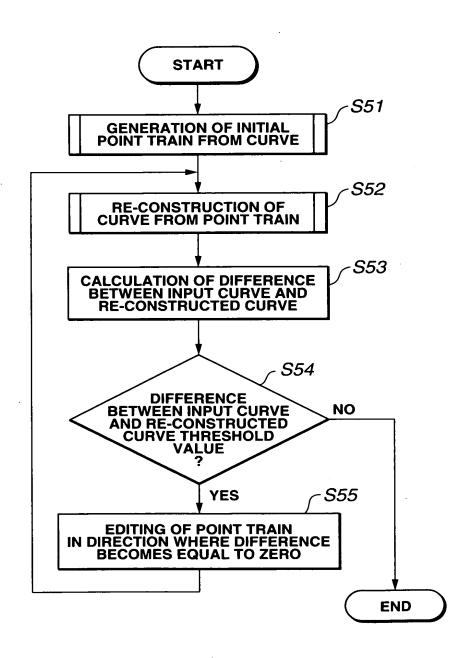


FIG.34

422 [2004 1511 270] 5 2 1713 2000

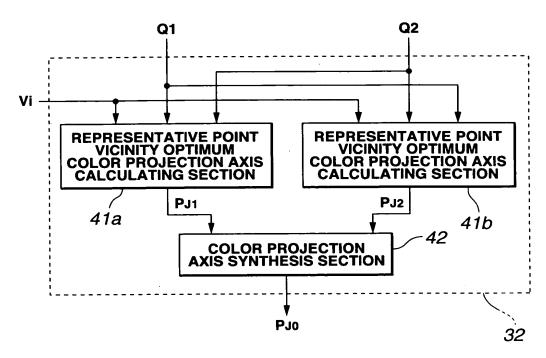


FIG.35

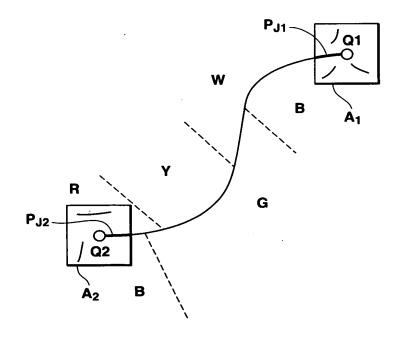


FIG.36

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